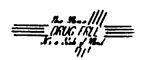


STATE OF NEW MEXICO



ENERGY, MINERALS and NATURAL RESOURCES DIVISION

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

BRUCE KING GOVERNOR ANITA LOCKWOOD CABINET SECRETARY

IRD RIO BRAZOS ROAD AZTIZI, NEW MEXICO 87410 (SNI) 335A174

	(XXI) 334·01/8
Date: $\frac{3/8/95}{}$	
Oil Conservation Division	Ruces W1 193/12 () 35-27-07
P.O. Box 2088 Santa Fe, NM 87504-2088	
RE: Proposed MC	Proposed DHCProposed SWDProposed PMX
Proposed WFX Proposed NSP Surface Commingling	Proposed DD
Gentlemen:	
I have examined the application received on	12/95
for the Unwal	Rinion Chief
OPERATOR	LEASE & WELL NO.
swent well	and my recommendations are as follows:
UL-S-T-R	
- appron	
	· · · · · · · · · · · · · · · · · · ·
Yours truly,	

UNOCAL®

March 1, 1995

Certified Return Receipt No.: P909423602

New Mexico Oil Conservation Division

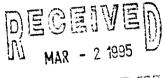
Attn.: Mr. William J. LeMay

PO Box 2088

Santa Fe, New Mexico 87504-2088

New Mexico Oil Conservation Division

Attn.: Mr. Frank Chavez 1000 Rio Brazos Road Aztec, New Mexico 87410



OIL COM. DIV.

Dear Sirs:

Union Oil Company of California d.b.a. UNOCAL requests permission to surface commingle hydrocarbon production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location
Well 131E 134E 134E 149M 166E 176E 178E 185E 231E 304 304M 193M	1145' FSL, 1525' FWL, S36, T27N, R7W 800' FSL, 800' FEL, S12, T26N, R7W 1900' FNL, 1365' FWL, S30, T27N, R6W 1980' FNL, 1980' FWL, S32, T27N, R6W 1505' FNL, 1850' FWL, S31, T27N, R6W 1450' FSL, 1450' FEL, S23, T27N, R7W 1550' FSL, 1505 FEL, S22, T27N, R7W 1145' FNL, 790' FWL, S12, T26N, R7W 1850' FNL, 1480 FEL, S11, T26N, R7W 1020' FSL, 795' FEL, S11, T26N, R7W
227E 303E 124A	800' FSL, 800' FWL, S28, T27N, R7W 1850' FNL, 830' FEL, S33, T27N, R7W 2025' FNL, 1610' FWL, S34, T27N, R7W

These wells will be drilled during the Summer of 1995. It is UNOCAL's intention to complete these wells as dual string Blanco Mesa Verde and Basin Dakota and to surface commingle, in common facilities, commonly owned hydrocarbon production from the Blanco Mesa Verde and Basin Dakota. Allocation factors for gas and oil production from each zone will be determined semiannually by flowing each zone independently through the custody transfer meter or a test separator. The commercial value of this surface commingled production will not be less than the sum of the values of the production from the individual Mesa Verde and Dakota horizons.

This wellbore and facilities arrangement is the future for UNOCAL's continued development and efficient operation of the Rincon Unit. In 1992 - 94 Unocal drilled and completed, with 5-1/2" casing and 2-3/8" tubing, a number of commingled Dakota/Mesa Verde gas wells. At that time drilling and completing Dakota/Mesa Verde wells with 7" casing, dual tubing strings and dual facilities was not economical. Significant improvements in our gathering system compression has made it practical to drill and complete future Dakota/Mesa Verde wells with 7" casing, dual tubing strings and one set of surface facilities. The additional cost of to drill and set 7" casing, and run an additional string of tubing and a packer will be offset by reduced surface facilities costs (surface commingle) and the ability to take full advantage of lower gathering system pressures.

It has been our experience that Dakota wells require at least 180 psig backpressure in order to prevent liquid loadup. The Mesa Verde wells will produce without loadup problems against gathering system pressures as low as 60 psig. Surface commingled facilities will allow the requisite backpressure to be held on the Dakota while the Mesa Verde produces at the lower gathering system pressure.

As required for NMOCD Rule 303, the following information is attached:

- 1. Gas analysis from recently drilled Rincon Unit DK/MV wells
- 2. Wellbore and surface facilities schematic.
- 3. Copies of notification letters sent to all offset operators (if any) and BLM.
- 4. Acreage dedication plat showing offset lease ownership.

If you have any questions, please contact me at (505) 632-1811 ext.14. Thank you for your consideration in this matter.

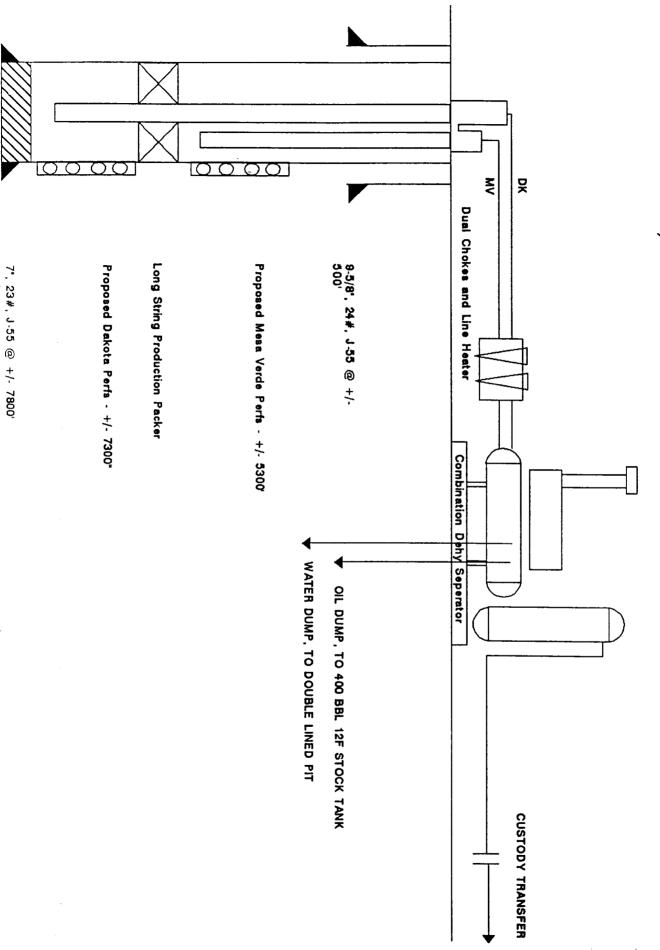
Sincerely,

Union Oil Company of California d.b.a. UNOCAL

Brett H. Liggett Production Engineer

WELL NAME ZONE	ZONE	TEST	MITROGEN	202	METHANE	ETHANE	PROPANE	1-BUTANE	N-BUTANE	I-PENTANE	N-PENTANE	HEXANE+	BTUS	GPM	SPEC GRAV
LL INSHIE	ž	I٦	0.310	1.150	86.570	6.980	2.760	0.500	0.730	0.270	0.20	0.530	1159.0		0.670
RINCON # 1E	≩	11/23/94	0.310	1.150	86.570	6.980	2.780	0.500	0.730	0.270	0.20	0.530	1159.0		0.670
	š	06/10/94	0.280	1.160	85.010	7.870	3.250	0.630	0.850	0.350	0.23	0.590	1184.0	3.890	0.685
RINCON #125M	¥	06/10/94	0.280	1.160	85.010	7.670	3.250	0.630	0.850	0.350	0.23	0.590	1184.0	3.890	0.685
	ž	11/17/94	0.210	1.320	87.950	6.430	2.000	0.510	0.520	0.280	0.16	0.620	1141.0		0.660
RINCON # 128	¥	11/18/94	0.450	1.070	83.080	8.230	4.220	0.790	1.090	0.370	0.24	0.460	1207.0	1	0.70
	Ž	12/07/93	0 290	1.050	87.540	6.460	2.770	0.540	0.680	0.270	0.17	0.230	1140.4	3.139	0.658
DINCON # 126M	3	12/07/83	0 290	1 050	87.540	6.460	2.770	0.540	0.680	0.270	0.17	0.230	1140.4	3.139	0.656
	Ž	20/31/00	080	180	84 870	8 010	2 940	0.680	0.800	0.430	0.25	0.580	1182.1	3.927	0.685
2000	5	00/01/20	0000	2 5	81 780	10.520	4 220	0.600	0.840	0.280	0.19	0.160	1199.0	4.679	0.694
HILLON #12/	È	28/61/60	085.0		200	0,00	3.050	0000	0 800	0 340	0.23	0.580	1180.0	3.892	0.684
	<u></u>	11/11/94	300		04.030	200		000	0000	0.340	0 23	0.580	1180.0	_	0.684
RINCON #12/M	Ž	17/1/04	0.300		0000		200.0		080	0.370	0 25	0.600	1192.0	4.128	0692
	š.	11/16/84	0.230	200	20.740	0.440	200	0880	1 390	0.470	0.35	0.620	1280.0	1_	0.730
RINCON #128	È	11/18/94	0.430	2	21/2	10.350	2000	200	0880	0000	01.0	0490	11510	1	0.666
	ž	04/15/94	0.260	3	80.830	7.160	2.330	2000	000.7	0.430	0.35	0.580	1259 0	5.588	0.727
RITICON #129	≩	03/29/94	0.550	0.590	79.100	11.220	0000	0.040	300	200	200	980	12220	4 040	27.0
	ž	10/23/94	0.270	- 8	81.230	9.850	4.130	0.780	1.120	0.400	100	300		9	0 717
RINCON #129M	₹	10/23/94	0.270	1.190	81.230	9.850	4.130	0.780	1.120	0.460	0.31	0.660	1222.0	200	
	ž	04/15/94	0.200	1.180	81.380	10.020	4.020	0.740	1.190	0.470	0.33	0.4/0	1220.0	_!	0 / 16
001# N. C. 130	≩	04/15/94	0.580	0.730	78.580	10.230	5.830	1.020	1.470	0.480	0.34	0.740	1281.0		2
	Ž	04/13/04	0.430	1 240	84.220	8.530	2.970	0.630	0.780	0.340	0.22	0.640	1184.0	4.038	0.688
2010 Oct.	5 3	7061/70	0 330	1 210	84 030	8.690	3.110	0.640	0.820	0.350	0.22	0.800	1188.0	4.120	0.690
8 100	Ž	08/15/03	0 220	1 080	83,600	9.320	3.440	0.560	0.890	0:330	0.22	0.340	1189.0	4.254	.0687
1000	5 3	20/07/07	0.00	1 073	84 804	8 487	3.185	0.484	0.824	0.307	0.24	0.378	1177.1	3.930	0.678
HINCON # 1300	È	14/15/35		5	94 930	400	3 100	0.520	0.850	0.280	0.18	0.410	1175.0	3.886	0.678
!	5	*8/11/11	0.610	2 2	27.00	20,00	2 800	0.040	1 600	0.480	0.32	0.490	1286.0	6.138	0.744
RINCON #137	≩ Ž	80/[[/[0.440	38	0,5,7,	000	60	0.550	0.690	0.250	0.10	0.450	1134.0	2.905	0.655
	š	11/18/94	0.380	3 5	00.510	200	9,1	0.610	0 950	0.390	0.27	0.580	1186.0	3.964	0.688
RINCON #140	≩	11/30/94	0.380	200	050	3	3 630	990	1.020	0,370	0.20	0.410	1210.0	900	0.699
	Š.	10/0/04	0.830	2 9	200.00		000	0990	1020	0.370	0.26	0.410	1210.0	4.600	0.699
RINCON #151M	È	20000	200		200	2010	2 800	0.550	0.710	0.300	0.19	0.330	1152.0	3.371	0.663
	5	12/00/93	200	2 5	200.700	2010	2 800	0.550	0.710	0.300	0.10	0.330	1152.0	3.371	0.663
HINCON #108M	È	2/00/2	0.630	3		200	3,690	0.710	0.830	0.380	0.24	0.550	1207.0	4.458	0.698
	5	\$40L/L	0.240	200	2000		286	0.710	0.930	0 380	0.24	0.550	1207.0	4.458	0.698
RINCON # 158M	ž	17/10/84	0.240	3	93.010		9000	0730	0.77.0	0.280	91.0	0.410	1165.0	3.605	0.671
	š	10/14/94	0.230		86.060	7.050	200	0.540	0.770	0.280	0.19	0.410	1165.0	3.605	0.671
HINCON #167M	È	10/14/94	0.230		96.000	0000		0.670	080	0.340	0.21	0.360	1190.0	4.214	0.689
	š	10/31/84	0.330	2	93.040	2000	200	0.00	000	0 340	0.21	0.360	1190.0	4.214	0.689
RINCON #170M	≩	10/31/94	0.330	2	83.640	8.800	3.040	0,60	0000	0440	0.28	0.640	1217.0	4 644	0.707
	ž	11/26/94	0.360	1.1 0	82.250	9.290	2.000		200	0770	800	0.840	1217.0	4 844	0.707
RINCON #175M	≩	11/26/94	0.380	1.1	82.250	9.290	3.880	0.7.10	0.040			2000	11710	3.852	0.877
	ž	09/26/94	0.270	1.170	85.810	7.490	2.830	0.800	0.740	0.50		200	41710	3 652	0.877
RILICCN #180M	¥	09/26/94	0.270	1.170	85.810	7.490	2.830	0.800	0.740	0.310	2 6		2	100	
	ð	12/30/93	0.250	1.010	81.930	9.580	4.000	0.680	1.060	0.400	0.20	0.0	1660.0	120	
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RINCON UNIT, WBD & SURFACE COMMINGLE FACILITIES



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UNOCAL 76

March 1, 1995

United State Department of the Interior **Bureau of Land Management** 1235 La Plata Highway Farmington, New Mexico 87401

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, permission to surface commingle production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location
131E 134E 149M 166E 176E 178E 185E 231E 304 304M 193M 227E 303E 124A	1145' FSL, 1525' FWL, S36, T27N, R7W 800' FSL, 800' FEL, S12, T26N, R7W 1900' FNL, 1365' FWL, S30, T27N, R6W 1980' FNL, 1980' FWL, S32, T27N, R6W 1505' FNL, 1850' FWL, S31, T27N, R6W 1450' FSL, 1450' FEL, S23, T27N, R7W 1550' FSL, 1505 FEL, S22, T27N, R7W 1145' FNL, 790' FWL, S12, T26N, R7W 1850' FNL, 1480 FEL, S11, T26N, R7W 1020' FSL, 795' FEL, S11, T26N, R7W 1000' FNL, 1190' FWL, S35, T27N, R7W 800' FSL, 800' FWL, S28, T27N, R7W 1850' FNL, 830' FEL, S33, T27N, R7W 2025' FNL, 1610' FWL, S34, T27N, R7W

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

Union Oil Company of California

d.b.a. JUNIOCAL

Brett H. Liggett

UNOCAL 76

March 1, 1995

Caulkins Oil Co. 1997 E. Blanco Blvd. Bloomfield, New Mexico 87413

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, permission to surface commingle production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location
304	1850' FNL, 1480 FEL, S11, T26N, R7W
304M	1020' FSL, 795' FEL, S11, T26N, R7W
231E	1145' FNL, 790' FWL, S12, T26N, R7W
134E	800' FSL, 800' FEL, S12, T26N, R7W
166E	1980' FNL, 1980' FWL, \$32, T27N, R6W
176E	1505' FNL, 1850' FWL, S31, T27N, R6W

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

Union Oil Company of California d.b.a. UNOCAL

Brett H. Liggett

UNOCAL 76

March 1, 1995

Snyder Oil Co. PO BOX 2038 Farmington, New Mexico 87499

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, permission to surface commingle production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location
304	1850' FNL, 1480 FEL, S11, T26N, R7W
304M	1020' FSL, 795' FEL, S11, T26N, R7W

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

Union Oil Company of California d.b.a. UNOCAL

Prett H. Liggest

UNOCAL 76

March 1, 1995

Louis Dryefus Natural Gas Co. PO BOX 2993 Farmington, New Mexico 87499

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, permission to surface commingle production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location
304	1850' FNL, 1480 FEL, S11, T26N, R7W
304M	1020' FSL, 795' FEL, S11, T26N, R7W
303E	1850' FNL, 830' FEL, S33, T27N, R7W
If you have any objections to this proposal, pleas	se notify NMOCD within twenty days. If you have
any questions regarding this application, please	contact me at (505) 632-1811 ext. 14.

Sincerely,

Union Oil Company of California d.b.a. UNOCAL

Brett H. Liggett

UNOCAL 76

March 1, 1995

Meridian Oil Co. 3535 E. 30th St. Farmington, New Mexico 87402

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, permission to surface commingle production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location
178E 227E	1450' FSL, 1450' FEL, S23, T27N, R7W 800' FSL, 800' FWL, S28, T27N, R7W
303E	1850' FNL, 830' FEL, S33, T27N, R7W

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

Union Oil Company of California

d.b.a. UNOCAL

Brett H. Liggett'/ Production Engineer

UNOCAL 76

March 1, 1995

Amoco Production Co. 200 Amoco Ct. Farmington, New Mexico 87401

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, permission to surface commingle production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location				
185E	1550' FSL, 1505 FEL, S22, T27N, R7W				
178E	1450' FSL, 1450' FEL, S23, T27N, R7W				
227E	800' FSL, 800' FWL, S28, T27N, R7W				

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

Union Oil Company of California d.b.a. UNOCAL

Brett H. Liggett Production Engineer

UNOCAL 76

March 1, 1995

Central Resources Inc. 1776 Lincoln Street #1010 Denver, CO 80203

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, permission to surface commingle production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Legal Location				
1850' FNL, 1480 FEL, S11, T26N, R7W				
1020' FSL, 795' FEL, S11, T26N, R7W				
1850' FNL, 830' FEL, S33, T27N, R7W				
2025' FNL, 1610' FWL, \$34, T27N, R7W				
1000' FNL, 1190' FWL, \$35, T27N, R7W				

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

Union Oil Company of California d.b.a. UNOCAL

Brett H. Liggett

UNOCAL 76

March 1, 1995

Universal Resources Inc. 1331 Central Street #300 Denver, CO 80202

Greetings:

Union Oil Company of California (UNOCAL) has requested, from the State of New Mexico, Oil Conservation Division, permission to surface commingle production from the Blanco Mesa Verde and Basin Dakota formations in the following Rincon Unit wells, Rio Arriba County, New Mexico.

Well	Legal Location	
304 304M 303E 124A 193M	1850' FNL, 1480 FEL, S11, T26N, R7W 1020' FSL, 795' FEL, S11, T26N, R7W 1850' FNL, 830' FEL, S33, T27N, R7W 2025' FNL, 1610' FWL, S34, T27N, R7W 1000' FNL, 1190' FWL, S35, T27N, R7W	

If you have any objections to this proposal, please notify NMOCD within twenty days. If you have any questions regarding this application, please contact me at (505) 632-1811 ext. 14.

Sincerely,

Union Oil Company of California d.b.a. UNCGAL

Brett H. Liggett

OIL CONSERVATION DIVISION

Page 1 Revised 10/01/78

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator	UNIO	N OIL	COMPA	NY OF CAL	IFORN	IA Lease _	RIN	CON UN	IT	We	
Location of Well:	Unit	DSec	. 35	Twp	HNOCA	L Rge	7W		Cou		RIO ARRIBA
		MAME	of Reserv	OIR OR POOL		TYPE OF (OIL or C			ETHOD OF PROD (Flow or Art, LIII)	.	PROD, MEDIUM (Tog. or Cog.)
Upper Completion	ВІ	LANCO	MESA	VERDE		GAS			FLOW		TUBING
Lower Completion	B	ASIN	DAKO [*]	ГА		GAS			FLOW		TUBING
				PF	RE-FLOY	W SHUT-IN F	RESSURE	DATA			
Upper	Hour, date a	ihut-in			time shut-k		SI press. psi		1000	Stabilized?	(Yes or No)
Completion			, 1995	8 00AM		7 DAYS			900		YES
Lower Completion	Hour, date o		, 1995	Length of 8 00AM		7 DAYS.	SI press. psi	-	1350	Stabilized?	(Yes or No) NO
						FLOW TEST	NO. 1			<u></u>	
Consmenced	at (hour, dai	···)+ O(CTOBER	30, 1995			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	oducing (Up)	per er Lowerk	LOWE	R
Til.	-		ED TIME	Upper Comple	PRESSUI	RE Lewer Completion	PROD.				IARKS
				CSG 1000			 				
9:10	DAM	1	HR	TBG 900		TBG. 1280	70)°	0 = 80	O MCF	/D
10-14	O A M	_	LIDC	CSG 1000		TDO 1140			1		
10:10	UAM	2	HRS	TBG 900 CSG 1000		TBG. 1140	 -				•
11:10	OAM :	3	HRS	TBG 900		TBG. 1080					
				150 300	<u></u>	1000	 		 		
		ļ					ļ				·····
									`		
				L			٠		 		
roductio	on tate di	uring te	st							•	
)il-			ROD	D based on		Bbls. in		Haus			607
J11		l.	BOP	ם משבע טם		DDIS. II	·	_ Hours.	G	fav	GOR
G25:					MCFPD	; Tested thru	(Orifice o	or Meter):		
									,,		
	····					SHUT-IN PI					
Upper	Hour, date st		1005		lme shut-in		SI press, paid			Stabilized?	•
	Hour, date at		1995	11:30AM	/ [me shul-in	DAYS	SI press, paig	TBG.	900	Clabilled	NO Can or Mat
Fomer			1995	11 30AM		DAYS	or press. psi	TBG.	1350	31804 129 0?	(Yes or No)
				1-01			!		2000	, 1984 - Maria I	ILJ
									DIE	(454 ()	and and
				•						**************************************	
									NO NO	V - 8	And the second
									rana -		
					(Continue on r	everse side	e)	(9)[[] (. "*": 7
									I_{i}		in the second
										- '	

FLOW TEST NO. 2

Commenced at (hour, da	NOVEMBE	R 5, 1995	L1:30AM	Zone producing (U)	oper or Lowert: UPPER
TIME	LAPSED TIME		SURE	PROD. ZONE	
(hour, date)	SINCE **	Upper Completion	Lower Completion	TEMP.	REMARKS
12:30PM	1 HR.	CSG. 700 TBG. 600	TBG. 1350	69°	Q = 750 MCF/D
1:30PM	2 HRS.	CSG. 700 TBG. 500	TBG. 1350		
2:30PM	3 HRS.	CSG. 700 TBG. 500	TBG. 1350		

Production rat	te during test						
Oil:	BOPD based o	on Bbl	s. in	_ Hours	Grav	GOR	
Gas:		MCFPD: Tested t	hru (Orifice	or Meter):			
Remarks:							
			 				
I hereby certify	y that the information herein	contained is true and	d complete to	o the best of m	y knowledge.		
Approved	Jehnny Rolunson Oil Conservation Division	19	Operator	UNION OIL	COMPANY OF	CALIFORNIA	DBA UNOC
New Mexico	Oil Conservation Division NOV 0 9 1995		Ву	S.K. Liese	est		
Ву	DEPUTY OIL & GAS INSPECTOR		Tide	General Cl	erk		

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

Date

1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been distributed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.

Title

- At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.
- 3. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.
- Flow Test 'No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except

that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

November 7, 1995

7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow-period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

14-hour oil zone texts: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Azter District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

OIL CONSERVATION DIVISION

Page Revised 10/01/7

be used for reporting packer leakage tests In Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

perator UNI	ION OIL COMPA	NY OF CALIFOR	RNIA Lease _	RINCO	N UNIT	Well No. #193M
ation Well: Unit	D Sec. 35	DBA UNC 271		7W	Cor	RIO ARRIBA
	NAME OF RESERV	OIR OR POOL	TYPE OF (OII or C		METHOD OF PRO (Flow or Art Lift	
Ipper npletion	BLANCO ME	SA VERDE	GAS		FLOW	TUBING
, ower npielion	BASIN DA	КОТА	GAS		FLOW	TUBING
		PRE-FL	OW SHUT-IN F	PRESSURE	DATA	
Jpper Hour, date		Length of time sh		Si press. paig	CSG. 380	Stabilized? (Yes or No)
Hour date		9:3DAM Length of time sh	3 DAYS	SI press. psig	TRG 380	Stabilized? (Yes or No)
npletion APRI	L 14, 1996	9:3DAM	3 DAYS .	<u> </u>	TBG. 350	NO
			FLOW TEST	NO. 1		
menced at (hour, o	date)* APRIL	17, 1996	9:50AM		ucing (Upper or Lower):	LOWER
TIME (hour, date)	LAPSED TIME SINCE*	PRES Upper Completion	SURE Lower Completion	PROD. Z	L L	REMARKS
		CSG. 400	TD0 105			
1/18/96	24 HRS.	TBG 400 CSG: 420	TBG. 105	58°	-	0 = 700 MCF/D
1/19/96	48 HRS.	TBG. 420	TBG. 100	46°		Q = 617 MCF/D
		 		 		
				ļ		
				İ		
				<u> </u>		
			<u>. </u>	<u> </u>	1	
duction rate	during test					•
l:	BOP	D based on	Bbls. in	n	Hours.	G12v GOR
s:		MCF	PD; Tested thru	(Orifice or	Metet):	·
			EST SHUT-IN P	•		• •
Hour, date	shul-in	Length of time shu		SI press. psig	MIN	Stabilized? (Yes or No)
Hour, date	situt-in	Length of time shu	si-in	SI press. pelg		Stabilized? (Yes or No)
				•	ne a	
•		•			りる。	

APR 3 0 1998 E/

(Continue on reverse side)

OIL GOUL, II

FLOW TEST NO. 2

Lower Completion

PRESSURE

Upper Completion

Zone producing (Upper or Lowerk

REMARKS

PROD. ZONE

TEMP.

	 	100000000000000000000000000000000000000					
			<u>_</u>				
				·			
e during test							
BOPD	based on	Bbls. i	· ·	_ Hours	Grav	· 	GOR
	MCFI	PD: Tested thru	(Orifice o	or Meter):			
that the information	herein containe	d is true and co	mplete to	the best	of my knowled	ge.	
Johnny Rolun	sen	_19 (Decator	UNION	OIL COMPAN	Y 0F (ALIFORNIA DBA
1 1	3 4			PP	Paris		UNOCAL
APR 3 6 199	16	P	y ———	R.L. (Caine		
1 1 .	1 1						
DEPUTY OIL & GAS INS	PECTOR	7	ide	Produc	ction Forem	an	
	that the information Jehnny Relun Oil Conservation Div	BOPD based on MCF	BOPD based on Bbls. in MCFPD: Tested thrust that the information herein contained is true and confidence for the contained is true and confidence for the contained in the contained is true and confidence for the contained in the co	that the information herein contained is true and complete to Jehnny Rolunsum	that the information herein contained is true and complete to the best Jehnny Relune 19 Operator UNION APR 3 6 1996 By R.P.	that the information herein contained is true and complete to the best of my knowled Jehrny Rollinson 10 Operator UNION OIL COMPAN	that the information herein contained is true and complete to the best of my knowledge. Johnny Rollinson

NORTHWEST NEW MEDICO PACKER LEAKAGE TEST INSTRUCTIONS

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been distrubbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization: Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.
- 6. Flow Test'No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except

- that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow-period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 13 days after completion of the test. Tests shall be filed with the Atter District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

RLC/sk1

Commenced at (hour, date) ##

LAPSED TIME

SINCE PP

TIME

flour, datel

STATE OF NEW MEXICO

ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Page 1 Revised 10/01/78

This form is not to be used for reporting packer leakage tests in Southeastern New Mexico

		NORTHWEST NE	W MEXICO PA	CKER-LEAKAGE	TEST	
Operator	UNION OIL OF CALIFORNIA	dba UNOCAL	Lease RIN	CON UNIT		Well No. 193M
Location						193141
of Well: Ur	nit D Sec. 35 T	wp. <u>27N</u>	Rge07V	/	Cour	nty RIO ARRIBA
	NAME OF RESERVOIR	OR POOL	TYPE OF P		METHOD OF F	
i	BLANCO MESA VERDE		GAS	FLOW		TUBING
Lower Completion	BASIN DAKOTA		GAS	FLOW		TUBING
		PRE-FLO	W SHUT-IN PR	ESSURE DATA		
Hot	ur, date shut-in	Length of time shut-		SI press. psig		Stabilized? (Yes or No)
	11: a.m.			CSG 250		,
Completion	07/24/97	5 DAYS		TBG 185		Yes
	ur, date shut-in	Length of time shut-	in	SI press. psig		Stabilized? (Yes or No)
Completion	11: a.m. 07/24/97	5 DAYS		TBG 290	į	Yes
			FLOW TEST N	0. 1		
Commenced at (h	nour date)* 4: p.m.	07/29/97		Zone producing (Upper	or Lower)* LO	wer
TIME	LAPSED TIME	PRESS		PROD. ZONE		REMARKS
(hour, date 1:10 p.m.	e) SINCE*	Upper Completion CSG 230	Lower Completion	ТЕМР.		
07/30/97	21 hrs	TBG 190	TBG 110	72°	Q = 0	
8:20 a.m.		CSG 230	100 110			The state of the s
07/31/97	40 hrs	TBG 200	TBG 0	70°	Q = 0	my demonstration of the second state of the second state of the second s
l'						······································
		·				A DRIVER OF THE PARTY OF THE PA
) [] []	Jen venik
					N AUG	1 3 1997
					BG NOC	1 3 158/
	-	-			JIIO	CCOND DEV.
					בונט	MANT A
					•	no we this we
Production rate	during test					
Oil:	BOPD ba	used on	Bbls. in	Hours.	Gra	av. GOR
Com		1 (OPPD T	1.1 (0.17)			
Gas:		MCFPD; Teste	ed thru (Orifice or M	eter):		
		MID-TEST SHU	JT-IN PRESSUR	E DATA		
Hour	, date shut-in	Length of time shut-in	n	SI press. psig	1	Stabilized? (Yes or No)
Upper				CSG		
Completion				TBG		
Lower Hour Completion	, date shut-in	Length of time shut-in	n	SI press. psig TBG		Stabilized? (Yes or No)

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST FLOW TEST NO. 1

Commenced at (hour, date)*		Zone producing (Upper or Lower)* UPPER						
TIME	LAPSED TIME	PRES		PROD. ZONE	REMARKS				
(hour, date)	SINCE*	Upper Completion	Lower Completion	TEMP.					
		CSG							
		TBG	TBG						
		CSG							
		TBG	TBG						
		CSG							
		TBG	TBG						
!									
	ļ	I	I 1	l					
Production rate during	roduction rate during test								

Production rate during test					
Oil:	BOPD based on	Bbls. in	Hours.	Grav.	GOR
Gas:	MCFPD; Test	ed-thru (Orifice or Meter):			
Remarks:					
	on herein contained is true and comp	ete to the best of my knowled	-		
New Mexico Oil Conservation		Operator	UNION OIL OF	CALIFORNIA/dba UNC	DCAL
geh.	ring Robert on		Mike Tabet		
Dept	uty Oil & Gas Inspector	Title	Production Foremar	1	
Title		Date	August 15th, 199	7	

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

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